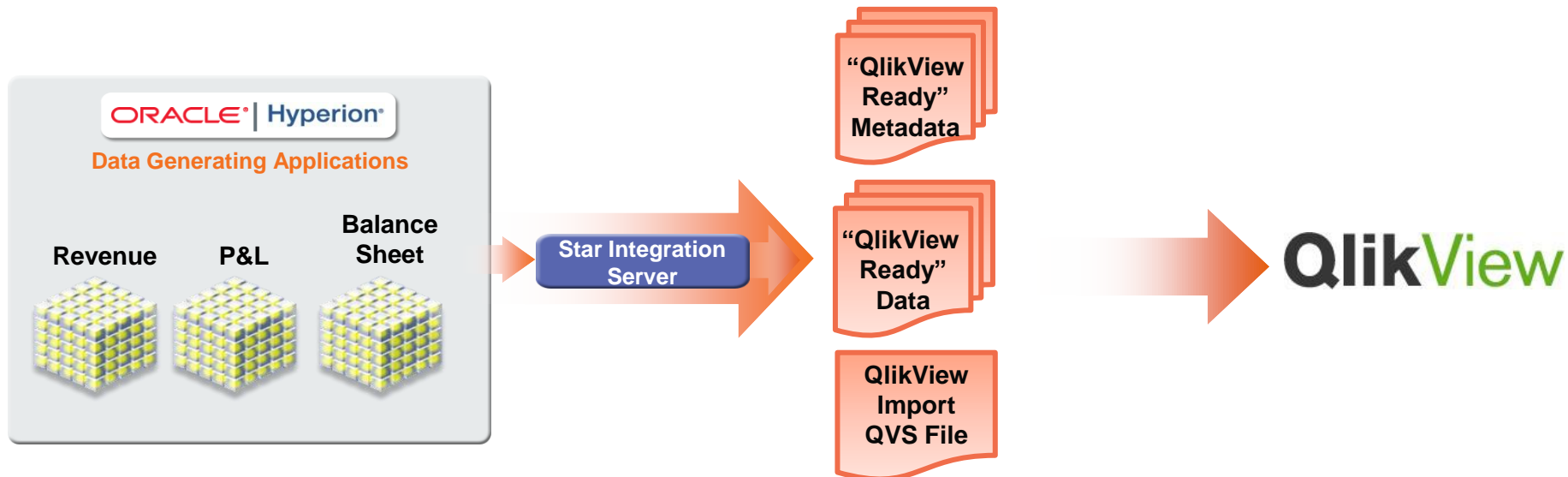


# Star Integration Server Delivers Data to QlikView from Hyperion

- Enables rapid, automated extraction of Oracle Essbase, Oracle Hyperion Planning and Oracle Hyperion Financial Management (HFM) data for delivery to QlikView.
- “QlikView Ready” Metadata extraction that preserves Hyperion “Drill-paths”
- “QlikView Ready” Data extraction from the source cube that preserves the results of dynamic calculations and application logic such as “Time” and “Accounting” intelligence
- Dynamic generation of QVS Load Script based upon the extracted source Hyperion data and metadata



# Star Integration Server

- Designed for Ease of Use

The screenshot shows the Star Integration Server Manager interface. The main window displays configuration for a selection named "QlikView Reporting - Sample:Basic".

**Selection Information:**

- Selection Name: QlikView Reporting - Sample:Basic
- Description: New Essbase Selection Description
- Source Connection: 3 - Essbase - Sample-Basic : HyperionEssbase
- Target Connection: 9 - TXT\_SampleBasic : TextFile

**Column Selections:**

Export	Column	Spin	MDM Prefix	Sort
<input checked="" type="checkbox"/>	Year	<input checked="" type="checkbox"/>		0
<input checked="" type="checkbox"/>	Measures	<input type="checkbox"/>		1
<input checked="" type="checkbox"/>	Product	<input type="checkbox"/>		2
<input checked="" type="checkbox"/>	Market	<input type="checkbox"/>		3
<input checked="" type="checkbox"/>	Scenario	<input type="checkbox"/>		4
<input type="checkbox"/>	Ounces	<input type="checkbox"/>		5
<input type="checkbox"/>	Pkg Type	<input type="checkbox"/>		6

**Member Selections:**

Member	Function	Parameter	Custom	Custom Calc	Dimension
Year	Select Descendants and Member			<input type="checkbox"/>	Year
Measures	Select Descendants and Member			<input type="checkbox"/>	Measures
Actual	Select Member			<input type="checkbox"/>	Scenario
Budget	Select Member			<input type="checkbox"/>	Scenario
Variance	Select Member			<input type="checkbox"/>	Scenario
Product	Select Members from here based on Level	Lev 0		<input type="checkbox"/>	Product
Market	Select Members from here based on Level	Lev 0		<input type="checkbox"/>	Market

**Context Menu for Profit (Dynamic Calc):**

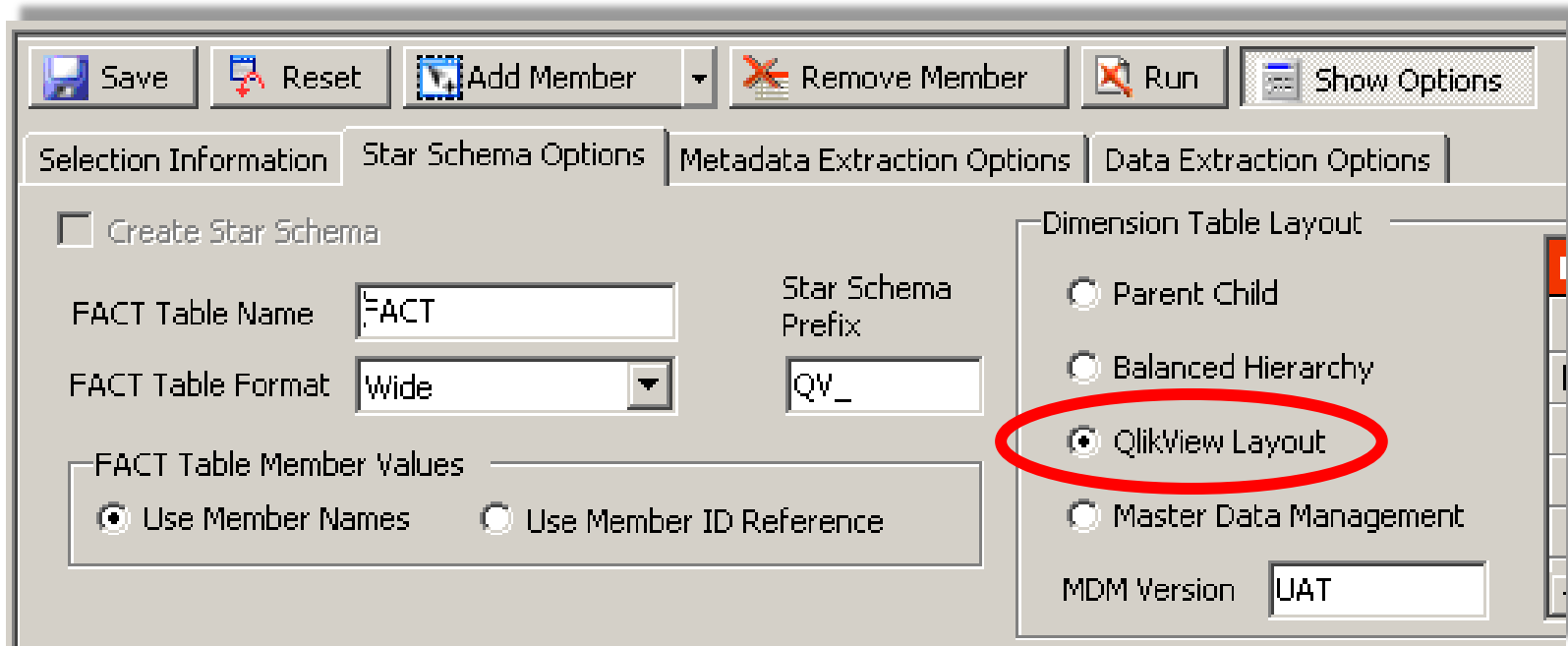
- Select Member
- Select Children
- Select Children and Member
- Select Descendants
- Select Descendants and Member
- Select (Shared) Descendants
- Select (Shared) Descendants and Member
- Select Ancestors
- Select Ancestors and Member
- Select Members from here based on Level
- Select Members from here based on Generation
- Select Members from here based on UDA

**Annotations:**

- Red arrows point to the Source and Target Connection dropdowns with the text "Select Source and Target".
- A red arrow points to the "Year" row in the Column Selections table with the text "Select Dimensions to Export".
- A red arrow points to the "All" option in the context menu with the text "Select criteria needed for reporting in QlikView".

# Star Integration Server

- Extraction of Data & Metadata specialized for QlikView
- Auto-generation of QlikView “QVS” Script



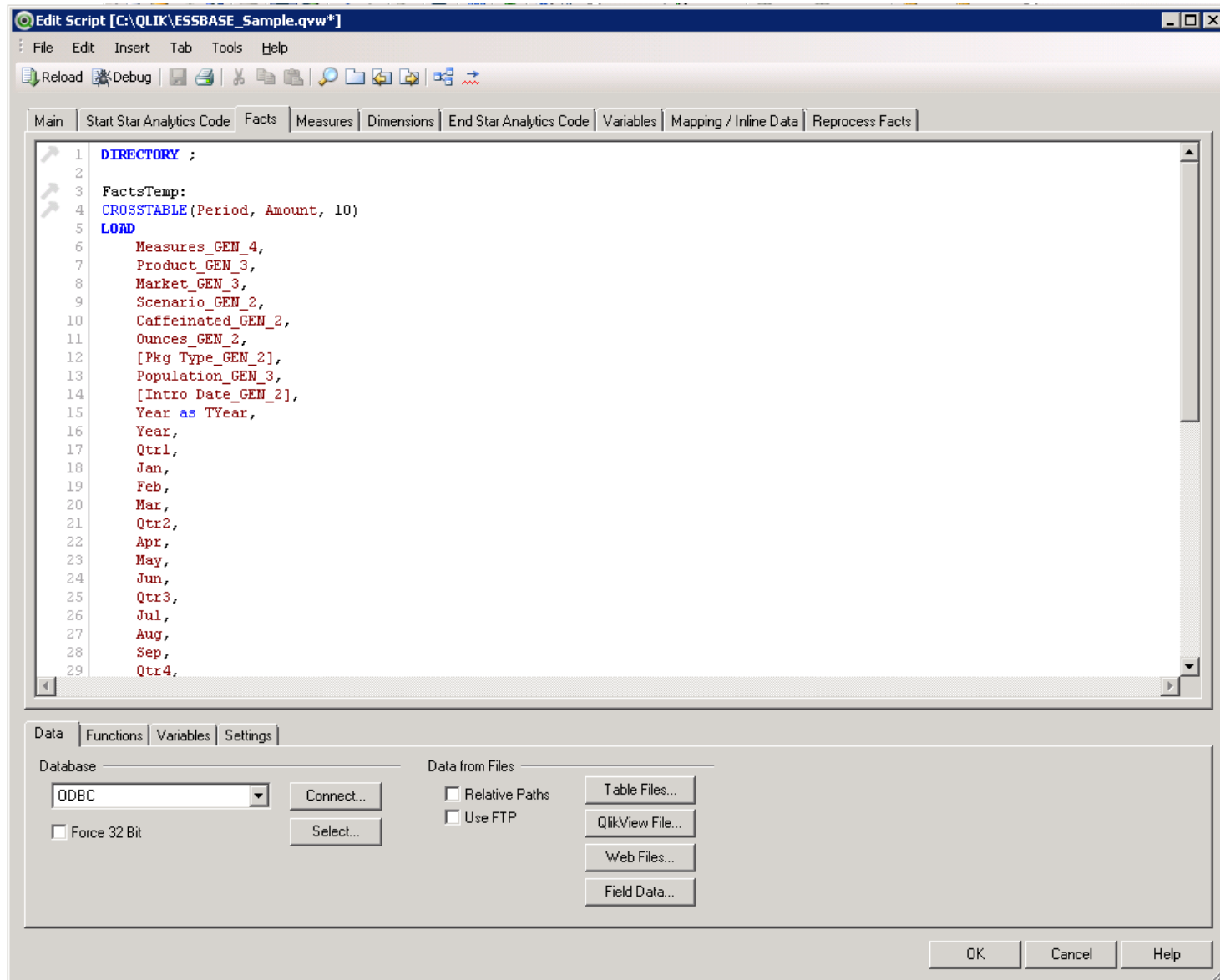
The screenshot shows the configuration window for the Star Integration Server. At the top, there are buttons for Save, Reset, Add Member, Remove Member, Run, and Show Options. Below these are four tabs: Selection Information, Star Schema Options, Metadata Extraction Options, and Data Extraction Options. The Star Schema Options tab is active.

Under the Star Schema Options tab, there is a checkbox for "Create Star Schema". Below it, the "FACT Table Name" is set to "FACT" and the "FACT Table Format" is set to "Wide". The "Star Schema Prefix" is set to "QV\_".

There are two radio button options for "FACT Table Member Values": "Use Member Names" (which is selected) and "Use Member ID Reference".

On the right side, under "Dimension Table Layout", there are four radio button options: "Parent Child", "Balanced Hierarchy", "QlikView Layout" (which is selected and circled in red), and "Master Data Management". Below this, the "MDM Version" is set to "UAT".

# Star Generated QVS Script – Facts



The screenshot shows the 'Edit Script' window for a QlikView application. The script content is as follows:

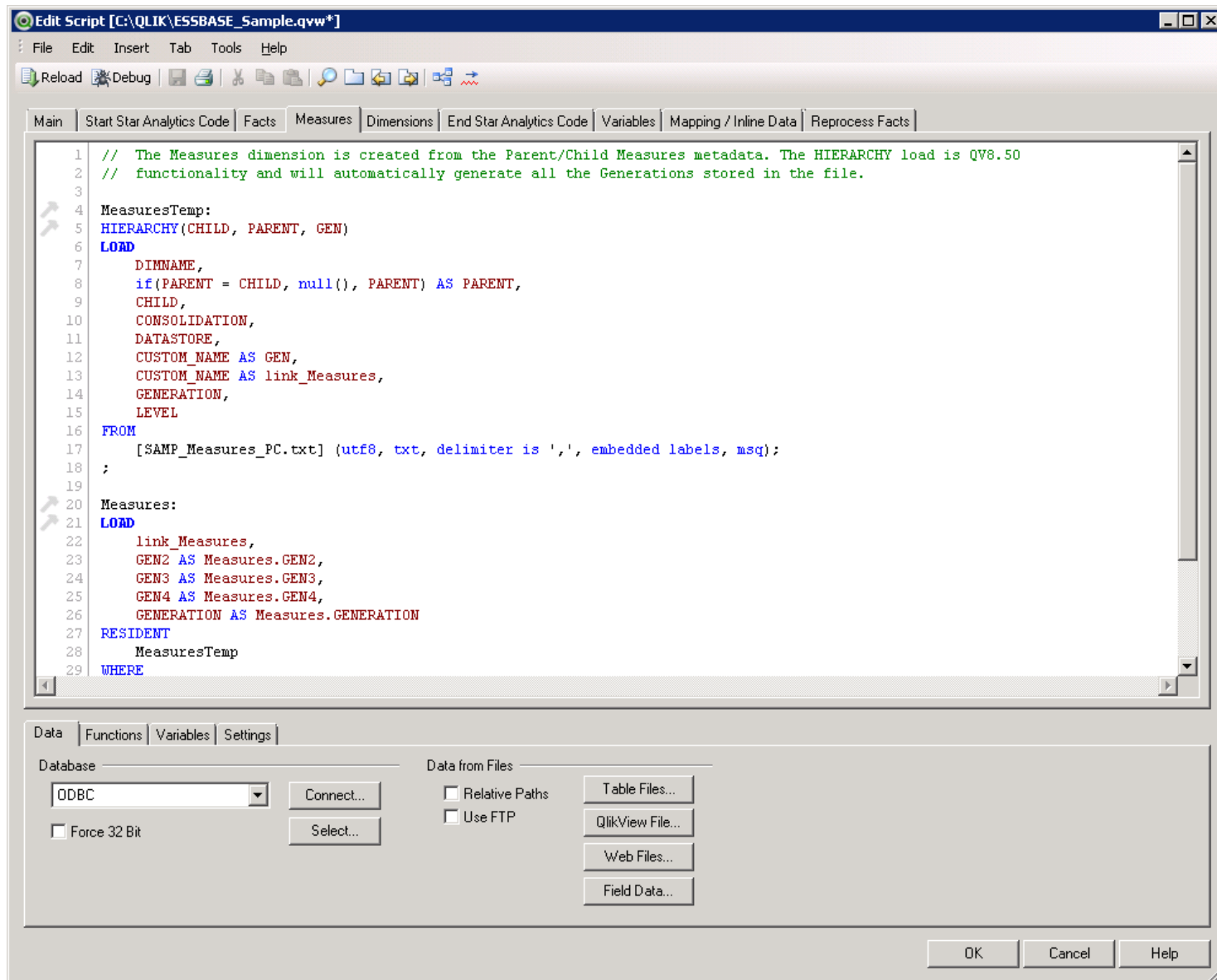
```

1  DIRECTORY ;
2
3  FactsTemp:
4  CROSSTABLE(Period, Amount, 10)
5  LOAD
6      Measures_GEN_4,
7      Product_GEN_3,
8      Market_GEN_3,
9      Scenario_GEN_2,
10     Caffeinated_GEN_2,
11     Ounces_GEN_2,
12     [Pkg Type_GEN_2],
13     Population_GEN_3,
14     [Intro Date_GEN_2],
15     Year as TYear,
16     Year,
17     Qtr1,
18     Jan,
19     Feb,
20     Mar,
21     Qtr2,
22     Apr,
23     May,
24     Jun,
25     Qtr3,
26     Jul,
27     Aug,
28     Sep,
29     Qtr4,

```

The interface includes a menu bar (File, Edit, Insert, Tab, Tools, Help), a toolbar with icons for Reload, Debug, and other actions, and a tabbed interface with 'Facts' selected. Below the script editor, there are tabs for 'Data', 'Functions', 'Variables', and 'Settings'. The 'Data' tab is active, showing a 'Database' dropdown set to 'ODBC', a 'Connect...' button, and a 'Select...' button. There are also checkboxes for 'Force 32 Bit', 'Relative Paths', and 'Use FTP'. On the right side of the 'Data' tab, there are buttons for 'Table Files...', 'QlikView File...', 'Web Files...', and 'Field Data...'. At the bottom right, there are 'OK', 'Cancel', and 'Help' buttons.

# Star Generated QVS Script – Measures



The screenshot shows the 'Edit Script' window for a QlikView application. The script is as follows:

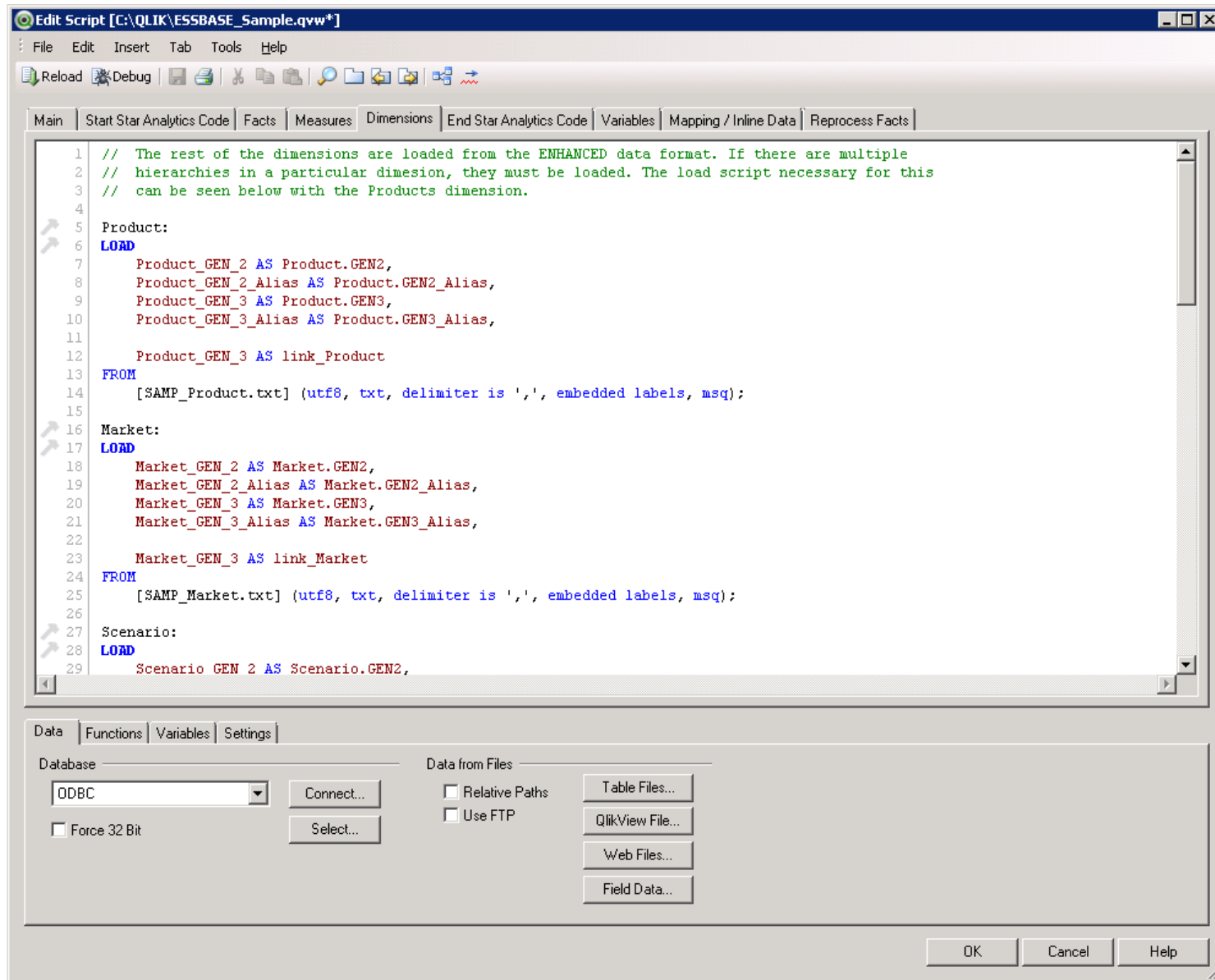
```

1 // The Measures dimension is created from the Parent/Child Measures metadata. The HIERARCHY load is QV8.50
2 // functionality and will automatically generate all the Generations stored in the file.
3
4 MeasuresTemp:
5 HIERARCHY(CHILD, PARENT, GEN)
6 LOAD
7     DIMNAME,
8     if(PARENT = CHILD, null(), PARENT) AS PARENT,
9     CHILD,
10    CONSOLIDATION,
11    DATASTORE,
12    CUSTOM_NAME AS GEN,
13    CUSTOM_NAME AS link_Measures,
14    GENERATION,
15    LEVEL
16 FROM
17 [SAMP_Measures_PC.txt] (utf8, txt, delimiter is ',', embedded labels, msq);
18 ;
19
20 Measures:
21 LOAD
22     link_Measures,
23     GEN2 AS Measures.GEN2,
24     GEN3 AS Measures.GEN3,
25     GEN4 AS Measures.GEN4,
26     GENERATION AS Measures.GENERATION
27 RESIDENT
28 MeasuresTemp
29 WHERE

```

The interface includes a menu bar (File, Edit, Insert, Tab, Tools, Help), a toolbar with icons for Reload, Debug, and other actions, and a tabbed interface with tabs for Main, Start Star Analytics Code, Facts, Measures (selected), Dimensions, End Star Analytics Code, Variables, Mapping / Inline Data, and Reprocess Facts. At the bottom, there are sections for 'Data' (with a dropdown for 'ODBC' and a 'Connect...' button) and 'Data from Files' (with checkboxes for 'Relative Paths' and 'Use FTP', and buttons for 'Table Files...', 'QlikView File...', 'Web Files...', and 'Field Data...').

# Star Generated QVS Script – Dimensions



The screenshot shows the 'Edit Script' window for a QlikView script. The script is titled 'Edit Script [C:\QLIK\ESSBASE\_Sample.qvw\*]' and is currently on the 'Dimensions' tab. The script content is as follows:

```

1 // The rest of the dimensions are loaded from the ENHANCED data format. If there are multiple
2 // hierarchies in a particular dimension, they must be loaded. The load script necessary for this
3 // can be seen below with the Products dimension.
4
5 Product:
6 LOAD
7     Product_GEN_2 AS Product.GEN2,
8     Product_GEN_2_Alias AS Product.GEN2_Alias,
9     Product_GEN_3 AS Product.GEN3,
10    Product_GEN_3_Alias AS Product.GEN3_Alias,
11
12    Product_GEN_3 AS link_Product
13 FROM
14    [SAMP_Product.txt] (utf8, txt, delimiter is ',', embedded labels, msq);
15
16 Market:
17 LOAD
18    Market_GEN_2 AS Market.GEN2,
19    Market_GEN_2_Alias AS Market.GEN2_Alias,
20    Market_GEN_3 AS Market.GEN3,
21    Market_GEN_3_Alias AS Market.GEN3_Alias,
22
23    Market_GEN_3 AS link_Market
24 FROM
25    [SAMP_Market.txt] (utf8, txt, delimiter is ',', embedded labels, msq);
26
27 Scenario:
28 LOAD
29    Scenario_GEN_2 AS Scenario.GEN2,

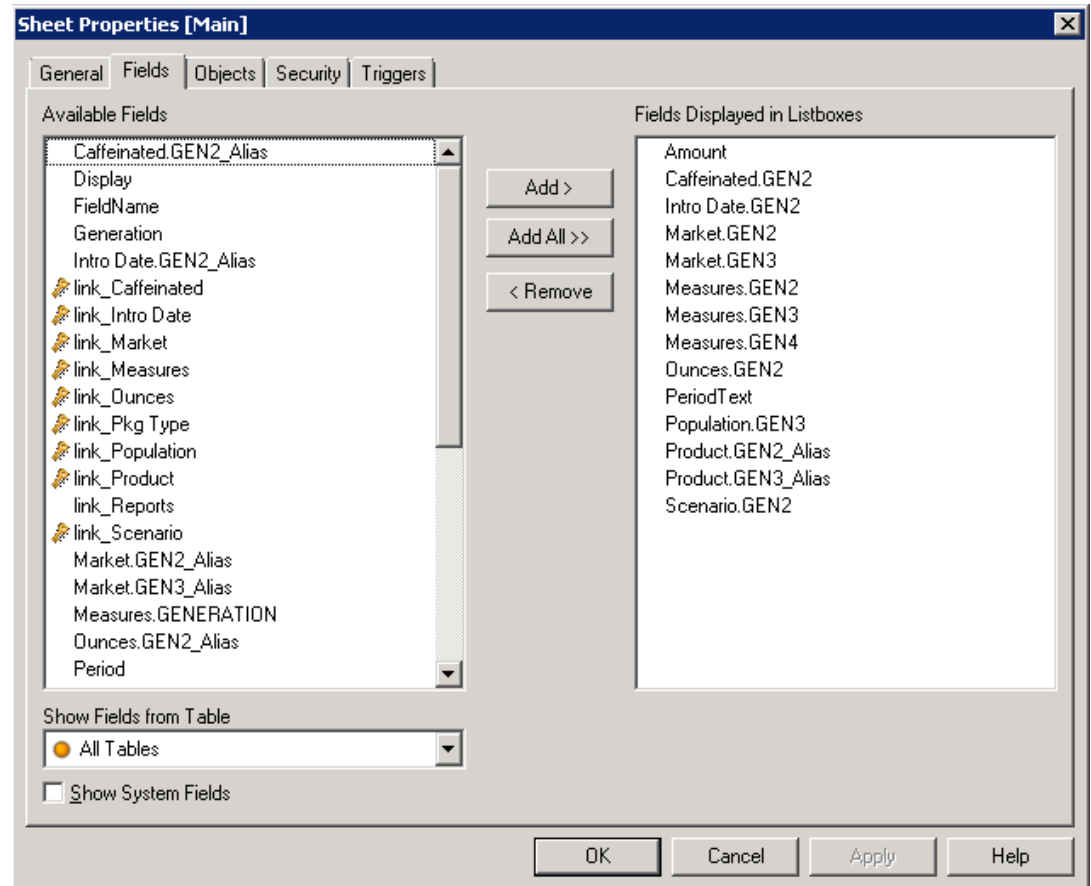
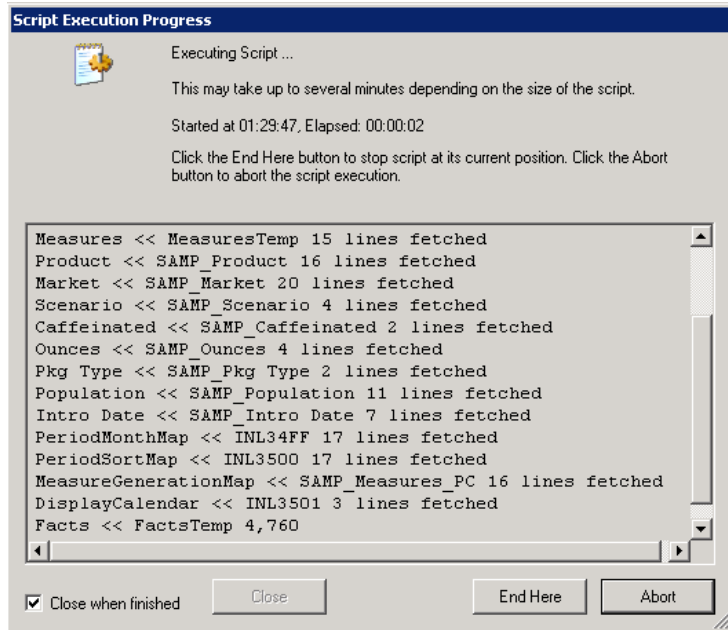
```

At the bottom of the window, there is a 'Data' section with the following options:

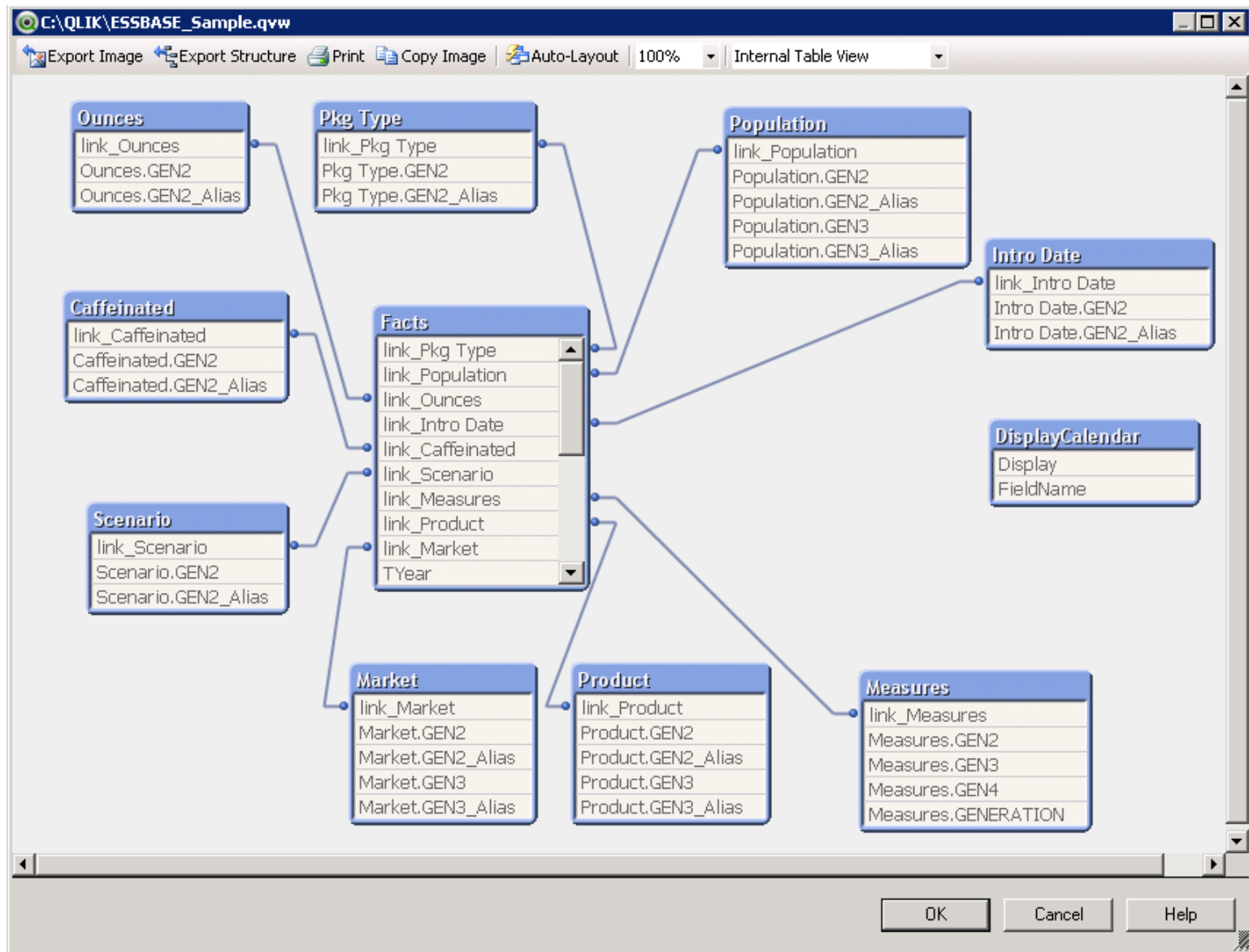
- Database: ODBC (selected)
- Force 32 Bit:
- Connect... button
- Select... button
- Data from Files:
  - Relative Paths
  - Use FTP
  - Table Files... button
  - QlikView File... button
  - Web Files... button
  - Field Data... button

At the bottom right, there are 'OK', 'Cancel', and 'Help' buttons.

# Execute QVS Script and Choose Fields for QlikView Report



# See Joins Created by Star Generated QVS Script



# Raw Essbase Data & Metadata in QlikView

QlikView Personal Edition - [C:\QLIK\ESSBASE\_Sample.qvw\*]

File Edit View Selections Layout Settings Bookmarks Reports Tools Object Window Help

Clear Back Forward Lock Unlock

Main

**Measures.GEN2**

- Inventory
- Profit
- Ratios

**Measures.GEN3**

- Additions
- Ending Inventory
- Margin
- Margin %
- Opening Inventory
- Profit %
- Total Expenses

**Measures.GEN4**

- COGS
- Marketing
- Misc
- Payroll
- Sales**

**Product.GEN2\_Alias**

- Colas
- Cream Soda
- Diet Drinks
- Fruit Soda
- Root Beer

**Product.GEN3\_Alias**

- Birch Beer
- Caffeine Free Cola
- Cola
- Dark Cream
- Diet Cola
- Diet Cream
- Diet Root Beer
- Grape
- Old Fashioned
- Orange
- Sasparilla
- Strawberry
- Vanilla Cream

**Market.GEN2**

- Central
- East
- South
- West

**Market.GEN3**

- California
- Colorado
- Connecticut
- Florida
- Illinois
- Iowa
- Louisiana
- Massachusetts
- Missouri
- Nevada
- New Hampshire
- New Mexico
- New York
- Ohio
- Oklahoma
- Oregon
- Texas
- Utah

**Scenario.GEN2**

- Actual
- Budget
- Variance
- Variance %

**PeriodText**

- JAN
- FEB
- MAR
- APR
- MAY
- JUN
- JUL
- AUG
- SEP
- OCT
- NOV
- DEC
- QTR1
- QTR2
- QTR3
- QTR4
- YEAR

**Caffeinated.GEN2**

- False
- True

**Ounces.GEN2**

- 12
- 16
- 20
- 32

**Population.GEN3**

- 3000000
- 6000000
- 9000000
- 12000000
- 15000000
- 18000000
- 21000000
- 24000000
- 27000000
- 30000000
- 33000000

**Intro Date.GEN2**

- 03-25-1996
- 04-01-1996
- 06-26-1996
- 07-26-1996
- 09-27-1995
- 10-01-1996
- 12-10-1996

**Amount**

- 10
- 20
- 23
- 24
- 30
- 32
- 35
- 39
- 40
- 41
- 43
- 44
- 45
- 47
- 48
- 49
- 50
- 51

For Help, press F1

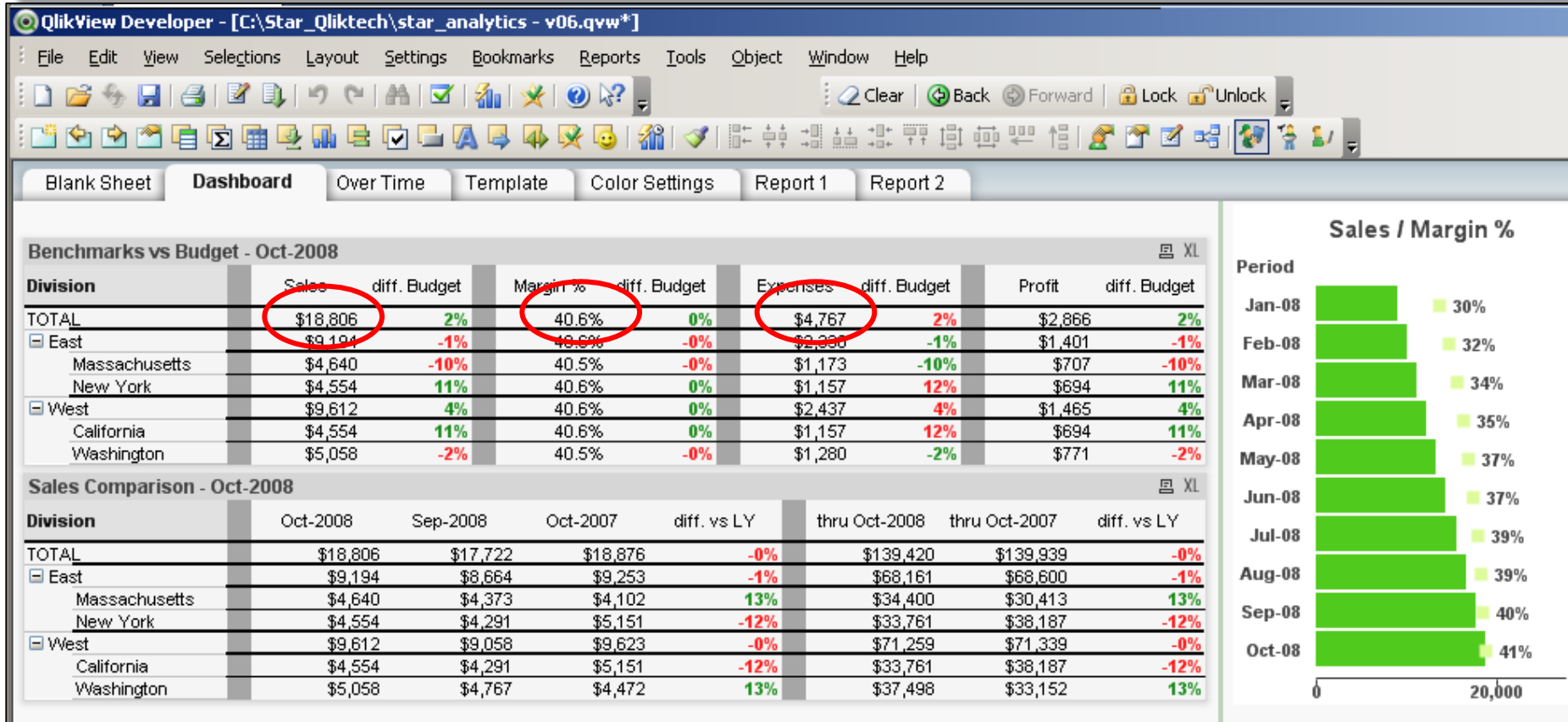
2/9/2011 12:36:36 AM\* D: 1/5 F: 1/15

# Standard Essbase Data Retrieval

	AO	AP	AQ	AR	AS	AT	AU	AV	AW	AX	AY	AZ	BA	BB
1 <b>Product</b>														
2 <b>Market</b>														
3 <b>Actual</b>														
4	<b>FY2008</b>	<b>FY2008</b>	<b>FY2008</b>	<b>FY2008</b>	<b>FY2008</b>	<b>FY2008</b>	<b>FY2008</b>	<b>FY2008</b>	<b>FY2008</b>	<b>FY2008</b>	<b>FY2008</b>	<b>FY2008</b>	<b>FY2008</b>	<b>FY2008</b>
5	<b>Qtr1</b>	<b>Apr</b>	<b>May</b>	<b>Jun</b>	<b>Qtr2</b>	<b>Jul</b>	<b>Aug</b>	<b>Sep</b>	<b>Qtr3</b>	<b>Oct</b>	<b>Nov</b>	<b>Dec</b>	<b>Qtr4</b>	<b>Full Year</b>
6 <b>Direct Sales</b>	19,455	8,212	9,074	9,936	27,222	10,816	11,678	12,540	35,035	13,402	14,266	15,136	42,804	124,516
7 <b>Distributor Sales</b>	11,021	4,107	4,319	4,542	12,968	4,755	4,977	5,181	14,913	5,404	5,617	5,839	16,860	55,762
8 <b>Total Sales</b>	30,475	12,319	13,393	14,478	40,190	15,571	16,655	17,722	49,948	18,806	19,883	20,975	59,663	180,277
9														
10 <b>Container</b>	11,687	4,610	4,960	5,318	14,888	5,677	6,027	6,385	18,089	6,735	7,094	7,445	21,274	65,938
11 <b>Liquid</b>	9,048	3,363	3,542	3,731	10,636	3,893	4,080	4,252	12,225	4,439	4,610	4,788	13,837	45,747
12 <b>COGS</b>	20,736	7,973	8,502	9,049	25,524	9,570	10,107	10,637	30,315	11,173	11,704	12,233	35,111	111,685
13 <b>Margin</b>	9,740	4,346	4,891	5,429	14,667	6,001	6,548	7,084	19,634	7,633	8,179	8,741	24,553	68,592
14														
15 <b>Give-aways</b>	521	256	307	341	903	393	436	469	1,298	521	555	614	1,691	4,413
16 <b>Direct Mailing</b>	785	341	393	436	1,169	469	521	555	1,545	614	649	691	1,954	5,454
17 <b>Media</b>	1,041	436	469	521	1,426	555	614	649	1,818	691	734	777	2,202	6,487
18 <b>Marketing</b>	2,347	1,032	1,169	1,298	3,499	1,417	1,571	1,673	4,661	1,827	1,937	2,083	5,847	16,354
19 <b>Payroll</b>	1,307	436	521	521	1,478	521	521	521	1,564	649	649	649	1,946	6,296
20 <b>Misc</b>	667	222	222	222	667	222	222	222	667	222	222	222	667	2,667
21 <b>T&amp;E</b>	3,352	1,355	1,473	1,593	4,421	1,713	1,832	1,949	5,494	2,068	2,187	2,307	6,563	19,830
22 <b>Total Expenses</b>	7,673	3,045	3,386	3,634	10,065	3,874	4,147	4,366	12,386	4,767	4,996	5,261	15,023	45,147
23														
24 <b>Profit</b>	2,067	1,301	1,505	1,795	4,602	2,127	2,401	2,718	7,247	2,866	3,183	3,480	9,529	23,445
25														
26 <b>Opening Inventory</b>	-	2,851	3,969	5,181	2,851	6,479	7,870	9,348	6,479	10,901	12,540	14,264	10,901	-
27 <b>Additions</b>	2,851	1,118	1,213	1,298	3,628	1,391	1,477	1,553	4,422	1,639	1,724	1,818	5,181	16,082
28 <b>Ending Inventory</b>	2,851	3,969	5,181	6,479	6,479	7,870	9,348	10,901	10,901	12,540	14,264	16,082	16,082	16,082
29														
30 <b>Margin %</b>	32.0	35.3	36.5	37.5	36.5	38.5	39.3	40.0	39.7	40.6	41.1	41.7	41.2	148.9
31 <b>Profit %</b>	6.8	10.6	11.2	12.4	11.4	13.7	14.4	15.3	14.5	15.2	16.0	16.6	16.0	48.7

**Note: Dynamically Calculated Data in Oracle Essbase**

# QlikView with Essbase Data



The same data now rendered in a Standard QlikView Report

# **Additional Essbase Report Examples**

# Essbase Dashboard in QlikView

QlikView Personal Edition - [Hyperion Essbase Analysis\*]

File Edit View Selections Layout Settings Bookmarks Reports Tools Object Window Help

Clear Back Forward Lock Unlock

Introduction How to **Dashboard** Analysis What-if

JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC

## QlikView

Search

Current Selections  
Measures.GEN4.2 Sales

Product Group Name  
 Colas  Fruit Soda  
 Cream Soda  Root Beer  
 Diet Drinks

Region  
 Central  South  
 East  West

Product Code  
State  
Measures.GEN2  
Profit  
Measures.GEN3  
Margin  
Measures.GEN4  
**Sales**

### Product Variance

Central Var = 4% East Var = 11%  
South Var = 4% West Var = 11%

Product Group Name

Colas  
Cream Soda  
Diet Drinks  
Fruit Soda  
Root Beer

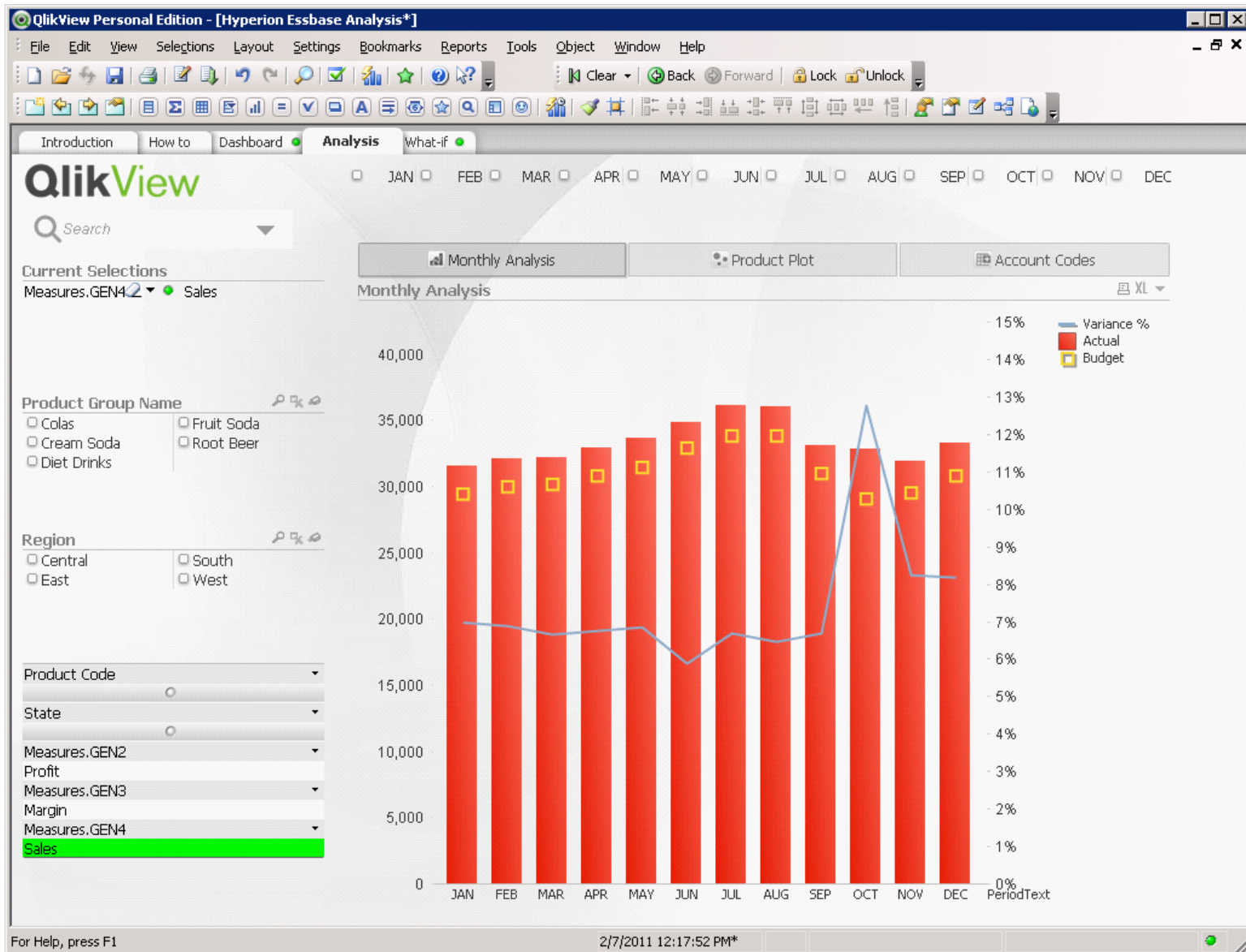
-10% 0% 10% 20%

Products Regional Customer Analysis Regions

Product Group Name	Product Name	Actual	Budget	Variance	Variance %	Variance
<b>Total</b>		<b>400,606</b>	<b>373,080</b>	<b>27526</b>	<b>7%</b>	
Colas	Caffeine Free Cola	12,841	13,600	-759	-6%	
Colas	Cola	62,824	67,190	-4366	-6%	
Colas	Diet Cola	30,469	33,520	-3051	-9%	
Cream Soda	Dark Cream	46,956	39,150	7806	20%	
Cream Soda	Diet Cream	36,969	31,920	5049	16%	
Cream Soda	Vanilla Cream	17,480	14,160	3320	23%	
Diet Drinks	Diet Cola	30,469	33,520	-3051	-9%	
Diet Drinks	Diet Cream	36,969	31,920	5049	16%	
Diet Drinks	Diet Root Beer	38,240	37,860	380	1%	
Fruit Soda	Grape	35,550	28,680	6870	24%	

For Help, press F1 2/7/2011 12:17:52 PM\*

# Essbase Analysis in QlikView



# Essbase What-if in QlikView

QlikView Personal Edition - [Hyperion Essbase Analysis\*]

File Edit View Selections Layout Settings Bookmarks Reports Tools Object Window Help

Clear Back Forward Lock Unlock

Introduction How to Dashboard Analysis **What-if**

QlikView Search (%)

Current Selections  
Measures.GEN4.2 Sales

Product Group Name

- Colas
- Cream Soda
- Diet Drinks
- Fruit Soda
- Root Beer

Region

- Central
- East
- South
- West

Product Code

State

Measures.GEN2 Profit

Measures.GEN3 Margin

Measures.GEN4 Sales

JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC

Actual -10 -5 0 5 10 15 20 25 30

Budget

Reset Sliders

What-if Analysis...

Product Group Name	Actual	What-if Actual	Budget	What-if Budget	Variance	What-if Variance
<b>Total</b>	<b>400,855</b>					
Fruit Soda	84,230	86,757	66,800	75,484	17,430	11,273
Cream Soda	101,405	104,447	85,230	96,310	16,175	8,137
Diet Drinks	105,678	108,848	103,300	116,729	2,378	-7,881
Root Beer	109,086	112,359	106,740	120,616	2,346	-8,258
Colas	106,134	109,318	114,310	129,170	-8,176	-19,852

For Help, press F1

2/7/2011 12:17:52 PM\*